

NIAX* gel series catalysts EF-602 (UAX-1180 and EF-600)

URETHANE ADDITIVES - FLEXIBLE SLABSTOCK FOAM



Niax EF-gel series catalysts are liquid, low odor, tertiary gel amines, designed to minimize or eliminate amine emissions in automotive interiors. The nonvolatility of these amine catalysts is the result of molecular design and high molecular weight. These give affinity toward the chemical structure of the final urethane polymer.

This new catalyst family consists of amines formulated into a range of delayed catalysts to provide the best available tools for successful production. The family consists of three gelling catalysts. Niax catalyst EF-602, the main product, is a mild gelling catalyst. It is the most delayed catalyst in this family and it can be used as the sole catalyst in most formulations. In this case, the use level can be relatively high. It gives extended cream time, smooth expansion and results in open foam with good physical properties. Niax catalyst EF-602 can also be used in combination with a blow catalyst.

Niax catalyst UAX-1180 and Niax catalyst EF-600 are based on the same tertiary amine as Niax catalyst EF-602. Their use is recommended for pour-in-place process applications.

Key Features and Typical Benefits

- meets stringent emission specifications
- easy processing with a variety of raw materials choices and equipment
- preserves physical properties that meet specifications
- improves hardness in TDI-based molded foams. This hardness increase is apparently proportional to the index and to the level of grafted polyol used in the formulation. This feature can be easily used to advantage, since lower indices produce softer foam

Typical Physical Properties of Catalyst EF-602

Form	Liquid
Viscosity at 20°C, cSt	1300
Solubility in Water at 20°C	Complete
Flash Point, Pensky-Martens Closed Cup (ASTM D 93), °C	>100

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Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at www.momentive.com or, upon request, from any Momentive Performance Materials representative. Use of other materials in conjunction with Momentive Performance Materials products may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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Emergency Service

Momentive Performance Materials maintains an around-the-clock emergency service for its products. The American Chemistry Council (CHEMTREC) and CareChem24 International also maintain an around-the-clock emergency service for all chemical products:

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Worldwide Hotline		T +1.607.786.8131	F +1.607.786.8309
		T +1.800.295.2392	

Visit us at Momentive.com



Momentive Performance Materials
22 Corporate Woods Boulevard
Albany, NY 12211

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